



FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D. C. 20535

To: FBI, Memphis  
Re: MURKIN

Date: April 29, 1968  
FBI File No.  
Lab. No.

Specimens received 4/5/68

For a complete listing of the evidence, refer to Laboratory report Memphis Office.

Results of examination:

The lead cores of the bullets in the five cartridges, Q4 through Q8, were found to vary in composition even though they were all from the same manufacturer.

The core portion of the Q64 bullet fragment from the victim's body is similar in composition to the lead core of the bullet in the cartridge designated Q4 and could have come from a source such as represented by the lead core of the bullet in Q4.

The bullet jacket portion of specimen Q64 is similar in composition to the metal of the jackets of the bullets in the Q4 through Q8 cartridges and could have come from the source represented by these bullets.

KING CASE  
 Bullet Links

C 77

Fe 75

Q64 = 1.56 mg 23 S<sup>+</sup> Sb<sup>-</sup> Mg<sup>+</sup> Pb<sup>+</sup> Fe<sup>+</sup> Bi Cu Ag Sn<sup>+</sup>

Q4 = 1.50 71 Si<sup>+</sup> Sb<sup>-</sup> Mg<sup>+</sup> Pb<sup>+</sup> Fe<sup>+</sup> Bi Cu Ag

Q5 = 1.47 69 S<sup>+</sup> Sb<sup>-</sup> Mg<sup>+</sup> Pb<sup>+</sup> Fe<sup>+</sup> Bi Cu Ag

Fe 67

Q6 = 1.49 65 Si<sup>+</sup> Sb<sup>-</sup> Mg<sup>+</sup> Pb<sup>+</sup> Fe<sup>+</sup> Bi Cu Ag

Q7 = 1.54 63 Si<sup>+</sup> Sb<sup>-</sup> Mg<sup>+</sup> Pb<sup>+</sup> Fe<sup>+</sup> Bi Cu Ag

Q8 = 1.52 41 Si<sup>+</sup> Sb<sup>-</sup> Mg<sup>+</sup> Pb<sup>+</sup> Fe<sup>+</sup> Bi Cu Ag Sn<sup>+</sup>

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 A

KING CASE  
COPPER JACKETS

C 29

Fe 27

Q64 (1.87 mg) 25 B<sup>tr</sup> Mg<sup>tr</sup> Fe<sup>vst</sup> Fe<sup>vs</sup> Cu<sup>+</sup> Ag<sup>+</sup> Zn<sup>-</sup>

Q4 (1.80 mg) 23 B<sup>tr</sup> Mg<sup>tr</sup> Si<sup>vst</sup> Fe<sup>vs</sup> Cu<sup>+</sup> Ag<sup>+</sup> Zn<sup>-</sup>

Q5 (1.81 mg) 21 B<sup>tr</sup> Mg<sup>tr</sup> Si<sup>vst</sup> Fe<sup>tr</sup> Cu<sup>+</sup> Ag<sup>+</sup> Zn<sup>-</sup>

Fe 19

Q6 (1.79 mg) 17 B<sup>tr</sup> Mg<sup>tr</sup> Si<sup>vst</sup> Fe<sup>tr</sup> Cu<sup>+</sup> Ag<sup>+</sup> Zn<sup>-</sup>

Q7 (1.81 mg) 15 B<sup>tr</sup> Mg<sup>tr</sup> Si<sup>vst</sup> Fe<sup>vst</sup> Cu<sup>+</sup> Ag<sup>+</sup> Zn<sup>-</sup>

Q8 (1.80 mg) 13 B<sup>tr</sup> Mg<sup>tr</sup> Si<sup>vst</sup> Fe<sup>tr</sup> Cu<sup>+</sup> Ag<sup>+</sup> Zn<sup>-</sup>

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B

C 73

Fe 71

Q64 69 = 1.565mg Sb<sup>-</sup> As<sup>6+</sup> Mg<sup>+</sup> Pb<sup>+</sup> Si<sup>+</sup> Fe<sup>+</sup> Bi<sup>+</sup> Sn<sup>+</sup>

Q4 67 = 1.545mg Sb<sup>-</sup> As<sup>5+</sup> Mg<sup>+</sup> Pb<sup>+</sup> Si<sup>+</sup> Fe<sup>+</sup> Bi<sup>-</sup>

Q64 65 = 1.670mg Sb<sup>-</sup> As<sup>5+</sup> Mg<sup>+</sup> Pb<sup>+</sup> Si<sup>+</sup> Fe<sup>+</sup> Bi<sup>-</sup>

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C

SAMPLE	wrl.	$\mu\text{g Sb}$	% Sb	
Q64A	9.867g	132	1.34	} 1.37%
Q64B	10.54	133	1.26	
Q64C	9.49	127	1.50	
				G = .12 Rel. G = 9%
Q4A	9.90	156	1.58	} 1.52%
Q4B	9.06	131	1.45	
Q4C	8.14	124	1.52	
				G = .07 Rel. G = 5%
Q5A	9.54	207	2.17	} 2.11%
Q5B	9.46	199	2.10	
Q5C	8.50	175	2.06	
				G = .06 Rel. G = 3%
Q6A	9.68	220	2.27	} 2.29%
Q6B	9.63	228	2.37	
Q6C	9.60	214	2.23	
				G = .07 Rel. G = 3%
Q7A	10.00	68	.68	} .71%
Q7B	8.42	62	.74	
Q7C	9.75	70	.72	
				G = .03 Rel. G = 4%
Q8A	9.60	110	1.15	} 1.06%
Q8B	9.30	95	1.02	
Q8C	9.18	92	1.00	
				G = .08 Rel. G = 8%

According to Remington - Petro, there are  
no spec. for low core lead.